

IN THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A method of receiving cell-load information of a cell in a wireless communication system, comprising:

receiving the cell load information at a first reporting periodicity, if ~~in the cell is determined to be in a period of~~ low cell loading state, and receiving the cell load information at a second reporting periodicity, higher than the first reporting periodicity, if ~~in a the cell is determined to be in a period of~~ high cell loading state.

2. (Currently Amended) The method of claim 1, wherein the cell load information is received on one of a dedicated channel and a ~~share~~ shared channel.

3. (Currently Amended) The method of claim 1, wherein the wireless communication system is a universal mobile ~~telephone~~ telecommunications service (~~UMTS~~) system (UMTS).

4. (Currently Amended) A method of providing cell load information in a wireless communication system comprising:

~~providing-reporting~~ the cell load information at a first reporting periodicity, if ~~in a period of~~ the cell is determined to be in a low cell loading state, and

~~providing-reporting~~ the cell load information at a second reporting periodicity, higher than the first reporting periodicity, if the cell is determined to be in a ~~in a period of~~ high cell loading state.

5. (Currently Amended) The method of claim 4, wherein the cell load information is provided on one of a dedicated channel and a ~~share~~ shared channel.

6. (Currently Amended) The method of claim 4, wherein the wireless communication system is a universal mobile ~~telephone~~ telecommunications service (~~UMTS~~) system (UMTS).

7-20. (Canceled)

21. (New) The method of claim 1, wherein the determination of the cell being in a low cell loading state or a high cell loading state is based on a comparison of the cell loading to one or more thresholds.

22. (New) The method of claim 21, wherein the one or more thresholds include an uplink threshold for comparison against cell load measurements measured by a radio network controller, and a downlink threshold for comparison against downlink cell load measurements measured by the cell.

23. (New) The method of claim 1, wherein the determination of the cell being in a low cell loading state and a high cell loading state is based on a comparison of the cell loading to a virtual threshold with differing resulting periodicities depending on whether the cell loading exceeds or falls below the virtual threshold.

24. (New) The method of claim 21, wherein the one or more thresholds are adaptive depending on at least one of cell loading and cell service mix.

25. (New) The method of claim 21, wherein the one or more thresholds are based on one or more consumption values generated by a dynamic bearer control algorithm.

26. (New) The method of claim 4, wherein the determination of the cell being in a low cell loading state or a high cell loading state is based on a comparison of the cell loading to one or more thresholds.

27. (New) The method of claim 26, wherein the one or more thresholds include an uplink threshold for comparison against cell load measurements measured by a radio network controller, and a downlink threshold for comparison against downlink cell load measurements measured by the cell.

28. (New) The method of claim 4, wherein the determination of the cell being in a low cell loading state and a high cell loading state is based on a comparison of the cell loading to a virtual threshold with differing resulting periodicities depending on whether the cell loading exceeds or falls below the virtual threshold.

29. (New) The method of claim 26, wherein the one or more thresholds are adaptive depending on at least one of cell loading and cell service mix.

30. (New) The method of claim 26, wherein the one or more thresholds are based on one or more consumption values generated by a dynamic bearer control (DBC) algorithm.

31. (New) A method of reporting cell load information in a wireless communication system comprising:

comparing a given cell loading measurement against one of two thresholds, an uplink loading threshold representing a difference between an uplink call admission control (CAC) threshold and a consumption margin set for the uplink, or a downlink loading threshold representing a difference between a downlink CAC threshold and a consumption margin set for the downlink, and

reporting cell load measurement information at one of two different periodic intervals based on the comparison.

32. (New) The method of claim 31, wherein reporting includes reporting the cell load measurement information at a first periodic interval, if the cell load is below the uplink loading threshold or downlink loading threshold, else

reporting the cell load measurement information at a second periodic interval shorter than the first, as the cell load exceeds the uplink loading threshold or downlink loading threshold.

33. (New) The method of claim 31, wherein the consumption margins for the uplink and downlink are based on maximum consumption values for corresponding supported services in the uplink and downlink.

34. (New) The method of claim 31, wherein the given cell load measurement for comparison against the uplink threshold is measured by a radio network controller, and the given cell load measurement for the comparison against the downlink threshold is measured by the cell itself.